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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	10/586,541
Filing Date	July 19, 2006
First Named Inventor	Yuzo SENDA
Art Unit	2133
Examiner Name	Not Yet Assigned
Attorney Docket Number	Q95983

U.S. PATENTS

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U.S. PATENT APPLICATION PUBLICATIONS

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FOREIGN PATENT DOCUMENTS

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NON-PATENT LITERATURE DOCUMENTS

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/F.A./	1	Matsumoto et al. "Irregular low-density parity-check code design based on euclidean geometries" IEICE transactions on fundamentals, July 2003, Pgs. 1820-1834, Vol. E86-A, No. 7, Tokyo, Japan XP001174812					N
	2	Matsumoto et al. "Irregular low-density parity-check code design based on integer lattices" Proceedings 2003 IEEE International., June 29-July 4, 2003, Pg. 3, New York, NY XP010657031					N
	3	LEHMANN "Distance properties of irregular ldpc codes" Proceedings 2003 IEEE International, June 29-July 4, 2003, New York, NY, pg. 85 XP010657113					N
	4	TIAN et al. "Construction of irregular LDPC codes with low error floors" IC 2003. 2003 IEEE International, May 11-15, 2003, New York, NY, vol. 4 pgs. 3125-3129 XP010643022					N
	5	YANG et al. "Design of efficiently encodable moderate-length high-rate irregular LDPC codes" Proceedings of the annual conference on communication, control and computing, October 2002 pgs. 1415-1424 XP 009042018					N
	6	LUBY et al. "Improved low-density parity-check codes using irregular graphs and belief propagation" Information theory, 1998. Proceedings. Cambridge, MA, pg. 117 XP 010297081					N
	7	ROSENTHAL et al. "Constructions of regular and irregular LDPC codes using Ramanujan graphs and ideas from margulis" Proceedings of the 2001 IEEE International Symposium on information theory. June 2001 pg. 4 New York, NY XP 010552621					N
	8	MANNOAI et al. "Optimized irregular gallager codes for OFDM transmission" Personal, indoor and mobile radio communications, 2002. Vol. 1 pgs. 222-226 XP010614219					N
	9	ECHARD et al. "Irregular/spl pi/-rotation LDPC codes" Globecom 02. IEEE Global telecommunications conference, New York, NY Vol. 2, November 2002 pgs. 1274-1278 XP010636350					N
	10	HA et al. "Optimal puncturing of irregular low-density parity-check codes" IEEE International conference on communications, New York, NY Vol. 5 May 2003 pgs. 3110-3114 XP010643019					N
	11	KASAI et al. "Detailed representation of irregular ldpc code ensembles and density evolution" IEEE international symposium on information theory, New York, NY June 2003 pgs. 121 XP010657149					N
	12	YANG et al. "Lowering the error-rate floors of moderate-length high-rate irregular ldpc codes" IEEE international symposium on information theory, New York, NY June 2003 pgs. 237 XP010657265					N

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/F.A./	13	RASHIDPOUR et al. "Low-density parity-check codes with simple irregular semi-random parity-check matrix for finite-length applications" Personal, indoor and mobile radio communications, 2003. PIMRC 2003. 14th IEEE proceedings, September 2003 pgs. 439-443 XP 010681634	N
/F.A./	14	LIUGUO et al. "Modified belief-propagation algorithm for decoding of irregular low-density parity-check codes" Electronics letters, vol. 38, no. 24, November 2002 pgs. 1551-1553 XP 006019345	N
/F.A./	15	JOHNSON et al. "A family of irregular ldpc codes with low encoding complexity" IEEE Communications letters, IEEE service center, Piscataway, NJ vol. 7, no. 2, February 2003 XP011066488	N

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Examiner Signature	/Fritz Alphonse/	Date Considered	07/05/2009
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